



Lead Metallization	Sn-1Bi Thickness: 10µm	Sn-2Bi/Sn Thickness: 4 / 6µm	
Lead Side			
Substrate Electrode Side			
Bi distribution	Heterogeneous		

Figure 1 Fracture surface of solder joint (1)

Solder: Sn-2.8Ag-15Bi Lead: 42 Alloy